## IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

- 1. (Currently Amended) A down converter comprising:
- at least one switch;
- an interface section, which connects the down converter to the at least one switch;
- at least one driver circuit is connected to the at least one switch; and
- a decoder connected to the at least one switch, wherein the at least one driver circuit and the at least one switch are disposed on a common integrated circuit, and wherein the decoder is connected to a signal ground which is different from a power ground of the common integrated circuit, wherein the at least one driver circuit is a high-current driver circuit, and the at least switch is a power switch.

## Claim 2 (Canceled)

- 3. (Previously Presented) The down converter as recited in claim 1, wherein the interface section is monolithically integrated with the at least one switch.
- 4. (Currently Amended) The A down converter as recited in claim 1, comprising:

## at least one switch;

an interface section, which connects the down converter to the at least one switch;

at least one driver circuit is connected to the at least one switch; and

a decoder connected to the at least one switch, wherein the at least one driver circuit and the at least one switch are disposed on a common integrated circuit, and wherein the decoder is connected to a signal ground which is different from a power ground of the common integrated circuit;

wherein the down converter includes a high-side current driver

which is connected to a high-side power switch.

5. (Currently Amended) The A down converter as recited in claim 1, comprising:

at least one switch;

an interface section, which connects the down converter to the at least one switch;

at least one driver circuit is connected to the at least one switch; and

a decoder connected to the at least one switch, wherein the at least one driver circuit and the at least one switch are disposed on a common integrated circuit, and wherein the decoder is connected to a signal ground which is different from a power ground of the common integrated circuit;

wherein the down converter includes a low-side current driver which is connected to a low-side power switch.

6. (Previously Presented) The down converter as recited in claim 4, wherein the high side current driver is connected to a level shifter.

- 7. (Previously Presented) The down converter as recited in claim 5, wherein the decoder is connected to the low side current driver and to a level shifter.
- 8. (Previously Presented) The down converter as recited in claim 4, wherein the high-side current driver is a CMOS device.
- 9. (Previously Presented) The down converter as recited in claim 5, wherein the low-side current driver is a CMOS device.
- 10.(Previously Presented) The down converter as recited in claim 1, wherein a parasitic inductor between the at least one driver circuit and the at least one switch is approximately 1 nH or less.
- 11.(Previously Presented) The down converter as recited in claim 1, wherein the integrated circuit is a silicon-based integrated circuit.

12. (Previously Presented) The down converter as recited in claim 1, wherein the integrated circuit is a SiGe-based integrated circuit.